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WHAT IS CLAIMED IS:

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1. A communication system for transmitting a transmission signal in digital form from a transmitter to a receiver, wherein:

the transmitter comprises:

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a modulation part modulating a carrier wave in accordance with the transmission signal according to frequency modulation;

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a digital conversion part performing 1-bit quantization on a modulated signal obtained as a result of the modulation in the modulation part; and

a transmission part transmitting digital data into which the modulated signal is converted in the digital conversion part; and

the receiver comprises:

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a reception part receiving the digital data transmitted from the transmission part; and

a demodulation part demodulating the digital data received by the reception part according to the frequency modulation.

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2. The communication system as claimed in claim 1, wherein:

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the transmitter further comprises an identification information insertion part inserting identification information into the transmission signal;

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and

the receiver further comprises:

an identification information extraction  
part extracting the inserted identification information  
5 from a demodulated signal obtained as a result of the  
demodulation in the demodulation part; and

an output control part enabling the  
demodulated signal to be output when the extracted  
identification information matches preset identification  
10 information, and disabling the demodulated signal from  
being output when the extracted identification information  
fails to match the preset identification information.

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3. A communication device for transmitting a  
transmission signal in digital form, comprising:

a modulation part modulating a carrier wave in  
20 accordance with the transmission signal according to  
frequency modulation;

a digital conversion part performing 1-bit  
quantization on a modulated signal obtained as a result of  
the modulation in the modulation part; and

25 a transmission part transmitting digital data  
into which the modulated signal is converted in the  
digital conversion part.

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4. The communication device as claimed in claim  
3, further comprising an identification information

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insertion part inserting identification information into the transmission signal.

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5. The communication device as claimed in claim 4, wherein the transmitted digital data is received by a receiver; and

10 the identification information is preset in the receiver.

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6. A communication device for receiving transmitted digital data, the digital data being obtained by modulating a carrier wave in accordance with a transmission signal according to frequency modulation and performing 1-bit quantization on a modulated signal obtained as a result of the modulation, the communication device comprising:

a reception part receiving the transmitted digital data; and

25 a demodulation part demodulating the digital data received by the reception part according to the frequency modulation, and restoring the transmission signal.

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7. The communication device as claimed in claim

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6, further comprising:

an identification information extraction part  
extracting identification information from a demodulated  
signal obtained as a result of the demodulation in the

5 demodulation part; and

an output control part enabling the demodulated  
signal to be output when the extracted identification  
information matches preset identification information, and  
disabling the demodulated signal from being output when  
10 the extracted identification information fails to match  
the preset identification information.

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8. The communication device as claimed in claim  
7, wherein the digital data is transmitted from a  
transmitter; and

the identification information is pre-inserted  
20 in the transmission signal in the transmitter.